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0320 #4

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/606,977

DATE: 04/03/2001

TIME: 13:22:58

Input Set : N:\paola\i606977.raw

Output Set : N:\CRF3\04032001\I606977.raw

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2 <120> TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
3   Plants
4 <130> FILE REFERENCE: 38-21(15877)B
5 <140> CURRENT APPLICATION NUMBER: US/09/606,977
6 <141> CURRENT FILING DATE: 2000-06-28
7 <160> NUMBER OF SEQ ID NOS: 82359
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10 <211> LENGTH: 280
11 <212> TYPE: DNA
12 <213> ORGANISM: Zea mays
13 <223> OTHER INFORMATION: unsure at all n locations
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18   ccgcttaacc gagcgtgagt tgccttgccg ggaaggtgac gaggtaggta tctgtattcc   240
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22 <211> LENGTH: 360
23 <212> TYPE: DNA
24 <213> ORGANISM: Zea mays
25 <400> SEQUENCE: 2
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27   attgaaagac cccgctcgtc agtgaatgtt gctattctag caaagggaag gtgttttttc   120
28   ggaccttcgg cgtaaagcct tcgtccatgt cgcaatctaa atttattatt ttaaaataaa   180
29   ttaatatggc gaggggctac tgggtggggc cttctgctta caaaggtoct caaaaacagg   240
30   atttaacaat atttctggag tataatgtgt gagcaggat cttcggactc aagtcgggat   300
31   cacaacagga gaagaccaga atagtacgaa cgttgatata gcgccccaaa tgtgaacagg   360
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34 <211> LENGTH: 433
35 <212> TYPE: DNA
36 <213> ORGANISM: Zea mays
37 <223> OTHER INFORMATION: unsure at all n locations
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40   gagttcaccg gatgtgggcy ccaatgttgg ggacttggtc tcaaagctt cgaattaaga   120
41   acaagacaac acaaaaatgt taagtataaa ttcccttcgt ccgctgaagc attatctccc   180
42   caaggattta atgagcttcg gacgaaggcc ataaataaag tatcacgaag gtttcacctt   240
43   cgtgatcata tttttaagac aacaatgaga aatgaaatat aaagcacaaa atatattcac   300
44   atattctggt atatgaatat acaagtattg aaacataaca tttacgaaca tttataacct   360
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46   agtaccggga tac   433
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55   gccagggtgta ccggaagaaa gtttattaag aataacttac tatcttctat ataactgata  180
56   ttatagcata catgagcatc atgttatgta tggctgttaa aaacaagaaa agaattgtca  240
57   aaaaacgact gaccaccgcc agactcacct gcggaatgtt tattgtttt gggacaatcc  300
58   aatcctacaa ggcatacctt cttggtttaa acttatactt gtgagcttag gaagagtgg   359
60 <210> SEQ ID NO: 5
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62 <212> TYPE: DNA
63 <213> ORGANISM: Zea mays
64 <223> OTHER INFORMATION: unsure at all n locations
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67   aggaaagtgt gcgtgtcggc atcaatgctt cttcaataag ctagtgtcca agcgaaacct  120
W--> 68   agaagcctga agatgattcn ttgagtagcc agaatcagcg ttggcaatca gcaaccagat  180
69   gctcctcaaa gaccagattt tgttgaagtt ccatctcctc gaagagtgc aaagtgaaga  240
70   tatgtagctg aagtaaagct ataccataa cccttctaag acgaatctcg aggacgagat  300
71   ttctttaagt gggtaggatt gtagcatccc acaaatcaaa ttctgaattt tctcaact   358
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81   cgcaaatcaa gagaaaaggt atgtttctaa gtcctagtac attggttttg tgtactaata  180
82   tacttgtcta agtgttggaa acagaaagta taagaaaaga gaagaggtgc aaaaagtctg  240
83   gtctggagca cggactgtc cgggtgtgca cggacagtg tccggtgcgc caggctgact  300
84   cggcgcgaac tgcccgctct caggaatatg ccgacggcgt acggctaaaa ttcaccggac  360
85   tattccgtgt gcaccggact gtccggtgag tcaacggtcg actgagccaa cggtcggcag  420
86   cggaatctgc gcgcgacacg tggctggcc   449
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89 <211> LENGTH: 344
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91 <213> ORGANISM: Zea mays
92 <400> SEQUENCE: 7
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94   ttgtttctca agttgggcat aattgctttt tagatatgac taccttgaaa agacttgctt  120
95   ttatgaacaa aaatatgtaa attttgtaat cgggaggtaa gtacaaataa ttagtcactt  180
96   taaaactgca cgatgtatct acaggtacaa acctaatcaa aatgcttcta aacagcgtac  240
97   ggagtatcta tagatatgta cccactaatt agacagtgtt aggtacattt gtaaaaaaat  300
98   atatgaattt ctagggaatt aatgccttct caaatatatg aaaa   344
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101 <211> LENGTH: 186
102 <212> TYPE: DNA
103 <213> ORGANISM: Zea mays
104 <400> SEQUENCE: 8
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105      ccagtaggct actataacag tgatatcact ttatcaatta cagatagtga cctcacactc   60
106      ttgaggatg attcactttt taagaagaac actatatcta aagaaaggta cccattttta   120
107      taatgcaacc gagcagttta ttaagattac aaaaaattga ggagggggga aatacaattt   180
108      ccacct                                     186
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111 <211> LENGTH: 404
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113 <213> ORGANISM: Zea mays
114 <223> OTHER INFORMATION: unsure at all n locations
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118      cagcggatgc acaaaccata tgacggggga gaagaagatg ttcacctcct acgtcaagaa   180
119      taaggattcc caagattcaa tcatattcgg ggatgggaac caaagcaagg tgaaagggtt   240
120      gggcaagatt gcaatatcaa atgagcactc tatctctaag gtgttttttag ttgagtctct   300
121      tggatataat ttactatctg tcaagtcaatt atgtaatatg ggatattatt tgctatttac   360
122      aaatgtaaat gtgtctgtct ttataagaag tgatgggtca ctat                               404
124 <210> SEQ ID NO: 10
125 <211> LENGTH: 343
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127 <213> ORGANISM: Zea mays
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131      gccgcgcgac gtggaccgag ctaaccagtg agtcttcgtc caattccttg caccacaac   120
132      ttccctgaca tcccgtaag ctctctcacc cgttcaattg aactatcgcg ccgtgagtag   180
133      gccggactcc tcgccgccga cgagcatctc cgcctgcgca cgtggaccga ccgactccaa   240
W--> 134      ccattccccga cggcgaccgg cacatcggtt tgatcctcga gaccttccct acgtnctcga   300
135      ccacctcacc ggagcaatct cgccggcggt aagccctccc gcc                               343
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138 <211> LENGTH: 392
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141 <223> OTHER INFORMATION: unsure at all n locations
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145      caaggtctcc agcaccgaac aaacagtcac ccgcactcac tgagcgggtg gccacagggt   180
146      tcgagaaggt gaatcgctgg cgcgcgcta attggtgcaa gatggggcgc gcgcgacgat   240
147      tattttaatc gtttctcgcc aacgagctca gggaagggtg tttttggatc ttcggcgctc   300
148      cgaagcctag aagacttttt cagggatcaa gctcgttacg aaaaacgato tatcaccgcg   360
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159      cacttcaaga cccctggagc tgctgcatat ggacctcttc ggacctgtcg cctatctgag 180
160      cataggagga agtaagtatg gtttagttat tgttgatgac ttttcccgct tcacttgggt 240
161      gttctttttg caggaaaaat ccgaaaccca agggactctc aaacgcttcc tcaggagagc 300
162      tcaaaatgag tttgagctca aagtgaaaaa gataagaagc gacaacgggt ccgagttcaa 360
163      gaaccttcaa gtggaggagt tccttgaaga ggaagggatc aagcacgagt tctccgtccc 420
164      tacacaccac agcaaaatgg tgtggtga 447
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167 <211> LENGTH: 341
168 <212> TYPE: DNA
169 <213> ORGANISM: Zea mays
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173      gtgagggagg cgaaaccgaa tgagcggaga ctgttcctat ctccgaagcg atgcaacgat 180
174      ccggactggt gacctctgaa ggaatccgta ctgccgagac agagcagact gttgccgaga 240
175      cagaataagt tgcgcggaa gcggaagaag gaaatattga ggaagctgat tccgatgatg 300
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179 <211> LENGTH: 418
180 <212> TYPE: DNA
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185      atattttact gaaaaatcga atggccatgt tcttaatcat tctacttatg ataaagaatt 180
186      atatgctctc atacgatctt tgcaaacatg gaaacattat ttgcggtcta acgaatctgt 240
187      tattcatttt gatcatgagt cacttaagca tcttcgtagt caaacaatc tgaaccgtag 300
188      acatgccaa ggggtagaat ttcttgaac ttctcttac atcattaaat ataaaaaggg 360
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194 <213> ORGANISM: Zea mays
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198      ttatagcaac caaaattgtc gtgcaatcca tcctttctag ccttcgtctg ataatgcagc 180
199      tcgtgaaccc ggcaaaagct gtccgcaaat ggctccactg cttggcttcg gagtgccag 240
200      atataaacac taagcctaac gatagcgta ggggtcagct ggtgaaaata gataccgaac 300
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213      caaattcaag aaatatTTta agaagccctg ccaagagtgg ctggatacag ttgaggtgat 300
214      gtgtaatgaa attcttgga attattcgaa aaaagaagat caactgatga cagcagcctt 360
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229 <210> SEQ ID NO: 18
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232 <213> ORGANISM: Zea mays
233 <223> OTHER INFORMATION: unsure at all n locations
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236      cctgctcggt tcttgcgctc gccggccgga aacttcctcc tgcgcgtgga gccctccag 120
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W--> 239      acgaatncat gctgcgcgcg cgcgccagct cactcccta gctcggcttt tgttctctg 300
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244 <211> LENGTH: 373
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250      accaacgact gcattgtagg ggtattcat gtcaacaata tcaaacacaa cctgttaact 180
251      tcttgtattg tggacaaatc cgaaggttac tgacatcgcg atcttgccaa gagatacaat 240
252      ctgcctttct ccaaaaccac aaagagggtg tgtagcatca tggatcttat actatagctc 300
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260 <223> OTHER INFORMATION: unsure at all n locations
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262      cacaactatt gcgcattagc ctatgtcatt ggtctttaat gctaccctac atggcatggt 60
263      tcttactca tatggggttt taggcaccga tctattaaga attctattaa agatatgagc 120
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VERIFICATION SUMMARY

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DATE: 04/03/2001

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Output Set: N:\CRF3\04032001\I606977.raw

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L:17 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
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L:39 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
L:39 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
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L:282 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:21
L:282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:293 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:22
L:293 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22
L:293 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22
L:293 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
L:322 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:24
L:322 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:24
L:322 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:24
L:322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:338 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:25
L:338 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:25
L:338 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:347 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
L:411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:415 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:427 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:430 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:439 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33
L:459 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34
L:468 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:533 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40
L:559 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:571 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43
L:572 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43
L:575 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43
L:620 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:636 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48
L:645 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49
L:646 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49
L:649 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49
L:674 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:676 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:686 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:715 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54
L:759 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57
L:760 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/606,977

DATE: 04/03/2001

TIME: 13:22:59

Input Set : N:\paola\i606977.raw

Output Set: N:\CRF3\04032001\I606977.raw

L:780 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59

L:786 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59

L:807 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61

STATISTICS SUMMARY

PATENT APPLICATION: US/09/606,977

DATE: 04/03/2001

TIME: 13:23:01

Input Set : N:\paola\i606977.raw

Output Set: N:\CRF3\04032001\I606977.raw

Application Serial Number: US/09/606,977

Alpha or Numeric: Numeric

Application Class:

Application File Date: 06-28-2000

Art Unit:

Software Application:

Total Number of Sequences: 82359

Total Nucleotides: 31151446

Total Amino Acids: 0

Number of Errors: 0

Number of Warnings: 328604

Number of Corrections: 0

MESSAGE SUMMARY

258 W:246453 (Mandatory Feature missing)

341 W: 82151 ((46) "n" or "Xaa" used)